## INTERNATIONAL SEARCH REPORT

International Application No
PC1/EP2004/013872

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F04B27/02 F04B F02B75/24 F04B39/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) FO4B FO2B IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. 1-7 ... γ FR 1 023 818 A (JULIEN, MAURICE-FRANCOIS-ALEXANDRE) 24 March 1953 (1953-03-24) page 1, column 1, line 1 - line 14 page 3, column 1, line 15 - page 5, column 2, line 20 figures 2,4 1-7 Y US 6 202 537 B1 (CATERPILLAR INC.) 20 March 2001 (2001-03-20) column 1, line 66 - column 2, line 46 figures 1,2 Α DE 31 32 144 A1 (VOLKSWAGENWERK AG) 1,7 3 March 1983 (1983-03-03) abstract figure 1 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" tater document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance Invention 'E' earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date "L" document which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-O' document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 10/03/2005 2 March 2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Gnüchtel, F Fax: (+31-70) 340-3016

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